Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application.

- 1. (Currently Amended) An isolated clamp loader complex comprising an Aquifex a delta subunit, tau subunit, and a delta prime subunit of a an Aquifex DNA polymerase III-type enzyme, the delta prime subunit being encoded by a nucleic acid molecule hybridizing to the complete complement of SEQ ID NO: 125 under hybridization conditions that are at least as stringent as use of a medium comprising 0.9M sodium citrate buffer at a temperature of 37°C 5X sodium citrate buffer and at a temperature of 65°C, followed by washing in 5X sodium citrate buffer at 65°C.
- 2. (Previously Presented) The clamp loader complex according to claim 1 wherein the *Aquifex* species is *Aquifex aeolicus*.
 - 3-4 (Cancelled)
- 5. (Previously Presented) The clamp loader complex according to claim 1 wherein the complex is purified.
 - 6. (Cancelled)
- 7. (Previously Presented) A DNA polymerase III-type enzyme complex comprising the clamp loader complex according to claim 1.
 - 8. (Original) A kit comprising:

a container that contains therein either a deoxynucleoside triphosphate or a dideoxynucleoside triphosphate; and

a container that contains therein the DNA polymerase III-type enzyme complex according to claim 7.

9-10. (Cancelled)

- 11. (Previously Presented) The clamp loader complex according to claim 1, wherein the delta prime subunit is at least 80 percent identical to the amino acid sequence of SEQ ID NO: 126.
- 12. (Previously Presented) The clamp loader complex according to claim 1, wherein the delta prime subunit is at least 90 percent identical to the amino acid sequence of SEQ ID NO: 126.

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- 13. (Previously Presented) The clamp loader complex according to claim 1, wherein the delta prime subunit is at least 95 percent identical to the amino acid sequence of SEQ ID NO: 126.
- 14. (Previously Presented) The clamp loader complex according to claim 1, wherein the encoding nucleic acid molecule is at least 90 percent identical to the nucleotide sequence of SEQ ID NO: 125.
- 15. (Previously Presented) The clamp loader complex according to claim 1, wherein the encoding nucleic acid molecule is at least 95 percent identical to the nucleotide sequence of SEQ ID NO: 125.
- 16. (Previously Presented) An isolated *Aquifex* delta prime subunit of a DNA polymerase III-type enzyme, the isolated delta prime subunit comprising the amino acid sequence of SEQ ID NO: 126.
- 17. (Previously Presented) A clamp loader complex comprising the *Aquifex* delta prime subunit according to claim 16.
- 18. (Previously Presented) A DNA polymerase III-type enzyme complex comprising the clamp loader complex according to claim 17.
 - 19. (Previously Presented) A kit comprising:

a container that contains therein either a deoxynucleoside triphosphate or a dideoxynucleoside triphosphate; and

a container that contains therein the DNA polymerase III-type enzyme complex according to claim 18.